

NANO PARTICLE-REINFORCED MO ALLOYS FOR X-RAY TARGETS AND
METHOD TO MAKE

ABSTRACT OF INVENTION

[0036] A nanocomposite comprising a plurality of nanoparticles dispersed in a molybdenum-based matrix, and an x-ray tube component formed from such a nanocomposite. The nanocomposite contains volume fraction of nanoparticle dispersoids in a range from about 2 volume percent to about 20 volume percent. A method of making such molybdenum-based nanocomposites is also disclosed.